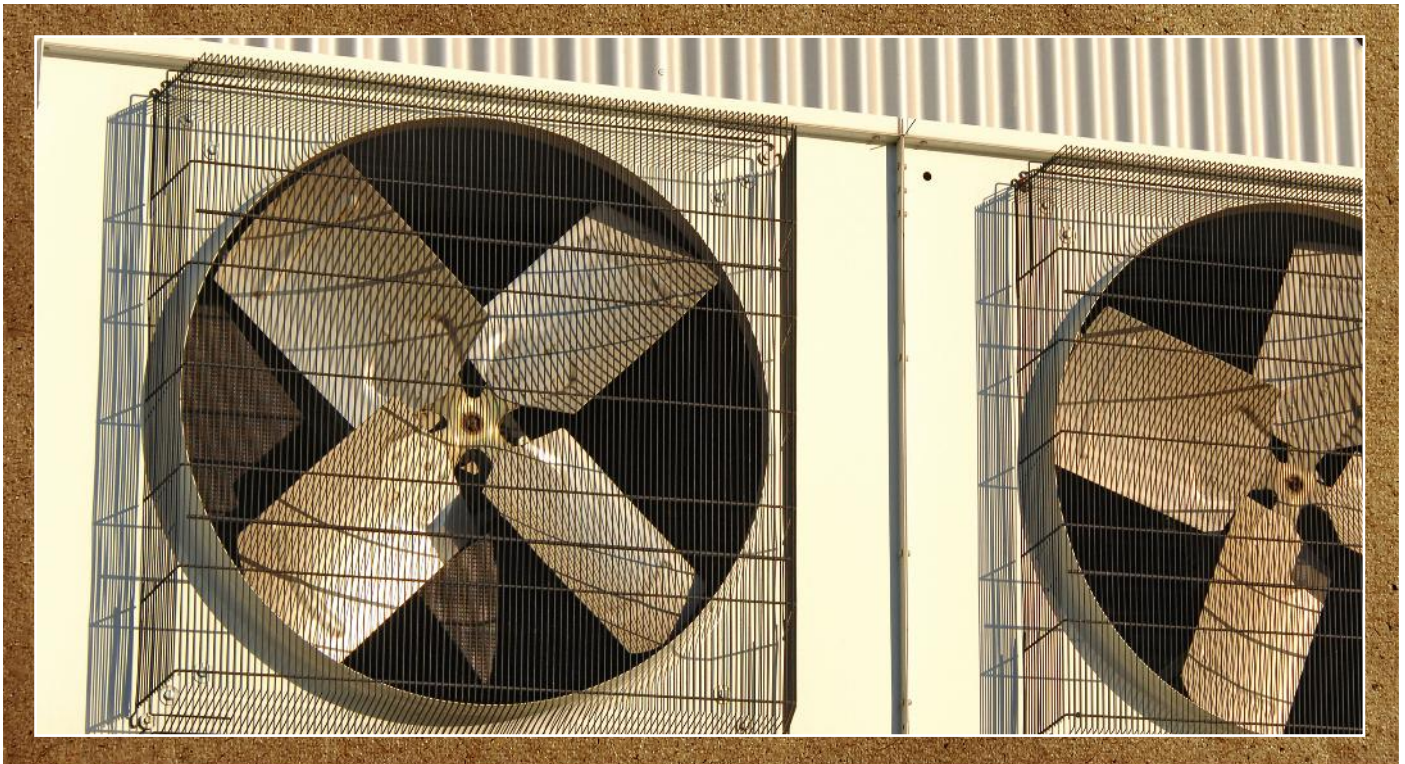


CLIENT: EMIRATES GLOBAL  
ALUMINIUM- JEBAL ALI (DUBAL)



#### PROJECT BRIEF

The purpose of the project activity is to improve the energy efficiency of the existing exhaust fans, located at the fume treatment plants of Dubai Aluminium (DUBAL), by installing variable speed drives (VFD) for the existing exhaust fans motors. This upgrade will result in 40% electricity savings compared to the existing situation without VFD. The resulting reduction of electricity demand (approx. 56,000 MWh/year) will reduce the greenhouse gases emission associated with the generation of fossil fuel based electricity. Dubai Carbon is supporting Dubai in registering the project with UNFCCC for carbon credits under the CDM.

#### PROJECT STATUS

**Project Type:**  
Carbon Advisory  
**Project Duration:**  
24 months  
**Project Status:**  
Ongoing

#### Meet the Team:



Thomas  
Bosse



Fazil Abdul  
Rahiman



## 3.3KV MAIN EXHAUST FANS ENERGY SAVING PROJECT

**CLIENT: EMIRATES GLOBAL  
ALUMINIUM- JEBAL ALI (DUBAL)**

### **CLIENT:**

#### **Emirates Global Aluminium- Jebal Ali (Dubal)**

Emirates Global Aluminium ("EGA") is owned equally by Mubadala Development Company of Abu Dhabi and Investment Corporation of Dubai. EGA is an aluminium conglomerate with interests in bauxite/alumina and primary aluminium smelting; with plans for significant local growth and international expansion.

EGA's core operating assets are Dubai Aluminium ("DUBAL") and Emirates Aluminium ("EMAL") – whose combined production is 2.4 million tonnes per annum ("tpa"), ranking EGA among the five largest primary aluminium producers in the world. Both companies are renowned for maximising the health and safety of people and the surrounding community, reducing operational environmental impact and investing in social and economic development. DUBAL's Jebel Ali operation – comprising a 1 million tpa smelter, a 2,350 MW power station and other facilities – is one of the world's largest single-site primary aluminium smelters. Commissioned in 1979, DUBAL celebrated its 35th anniversary in 2014.

<http://www.ega.ae>

### **OUTCOMES/WORK PACKAGES:**

- Developing and registering Dubal's energy efficiency project with UNFCCC
- International recognition for Dubal's energy efficiency improvement measures

### **PROJECT APPROACH:**

- Prince 2 for Project Management
- UNFCCC methodologies, rules and references

### **EMISSION REDUCTION POTENTIAL:**

Approx. 25,000 tCO<sub>2</sub>e annually

### **CDM METHODOLOGY:**

AMS-II.S. "Energy efficiency in motor systems"